



St. Anthony of Padua Catholic Primary School

'Growing Together Following Jesus'

Design and Technology Curriculum Statement

This Design and Technology (D&T) policy is set within the context of the whole school aims and mission statement:

Our Curriculum

At St Anthony of Padua, our aim is to provide an education that encourages children to become independent and creative problem-solvers, both as individuals and as part of a team. Our children learn to think creatively by looking for and responding to human needs, wants and interests. They combine their understanding of relevant and past design and technology with practical skills to design, make and evaluate their own products, taking into consideration the user, purpose, functionality, design decisions, innovation and authenticity.

Our children develop their knowledge and skills and understating of Design Technology from the Early Years through the Expressive Arts and Design area of learning. They explore creating with materials and being imaginative and expressive in a range of contexts. Through our scheme of work, 'Projects on a Page' pupils are taught to design, make, and evaluate products using a range of materials and components as specified in the statutory requirements laid out in the National Curriculum. These include construction materials, textiles, mechanical components and in KS2, electrical components.

Food Technology is taught through 'Food a Fact of Life – Food and nutrition' scheme of work. Children will learn that food is a basic requirement of life and should be enjoyed. They will develop an understanding of the principles of nutrition and will be able to demonstrate and apply appropriate knowledge of concepts and principles when planning and preparing meals and when making food choices.

Our curriculum provides progression and coverage of National Curriculum programmes of study. Each topic builds on prior learning and summarises new learning that is taught throughout the new topic.

Each topic (set out into Project Planners) comprises of 3 types of activity:

- Investigative and Evaluative where children learn from a range of existing products
- Focused Tasks where they are taught specific technical knowledge, designing skills and making skills
- Design, Make and Evaluate Assignment where children create functional products with users and purposes in mind.

Investigative and Evaluative activities along with focused tasks equip the children with skills to engage successfully and independently when designing, making and evaluating their product.

Our Delivery

To ensure that pupils develop a secure knowledge that they can build on, our D&T curriculum is organised into a progression model that outlines the aspect of D&T which is being covered in each topic. The key learning for each topic, which builds on prior knowledge, is taught in a sequentially coherent way. Our D&T Long Term Plan is mapped out to ensure that pupils build on secure, prior knowledge. D&T at St. Anthony of Padua is taught once per term, in rotation with Art and Design, for three terms across the year. Beginning in EYFS, children's learning

is continually built upon, following the EYFS Statutory Framework and The Primary National Curriculum. This is set out in a skills and knowledge progression map.

In Early Years, the early learning goals for Expressive Arts and Design indicate what children should know, understand and be able to do by the end of the reception year. A significant proportion of this learning should be delivered through high quality D&T experiences and activities, enabling children to 'safely use and explore a variety of materials, tools and techniques, experimenting with colour, design, texture, form and function' and 'use what they have learnt about media and materials in original ways, thinking about uses and purposes'. D&T also makes an important contribution to young children's learning across the remaining six areas of the EYFS framework, including Understanding the World, Physical Development, Literacy, Mathematics, Personal, Social and Emotional Development, and Communication and Language.

All D&T topics are completed in a 'Design Technology Project' booklet and follow the same order:

- Design Brief – children identify the user and purpose;
- Design – children analyse and evaluate existing products; Generate innovative ideas by carrying out research; Plan their product – annotated sketches (exploded diagrams where appropriate);
- Make – children identify the key stages of the making process;
- Technical Knowledge – children give examples or explain the new skills they have acquired;
- Evaluate their finished product.

Equality of Opportunity:

All pupils have equal access to our Design Technology Curriculum. The SLT, Class teacher and Support Staff at ST Anthony of Padua Catholic Primary school are responsible for ensuring that all children have access to the whole curriculum and make the greatest possible progress. Where appropriate, work will be adapted to meet pupils' needs and, if appropriate, extra support given. Pupils will be given suitably challenging activities. Gender and cultural differences will be reflected positively in the teaching materials used.

Our Children

Design and Technology fosters the knowledge, skills and dispositions for pupils to:

- Be creative and resilient in lessons and relish the challenge and opportunities for fun that the subject offers.
- Be critical and analytical in their thinking, making informed and balanced judgements based on their knowledge of the product and its intended user.
- Have the opportunity to work with a range of materials for different purposes.